

## ABSTRACT OF THE DISCLOSURE

A sensor head component is configured for use with a monitoring tool assembly in the performance of one or functions as part of a monitoring process. The sensor head component is configured to include at least one electrical component for performing the  
5 function as well as a memory device upon which operational information for the component is storable. The sensor head component is further configured to include an elongated body within which the electrical component is positionable and a base portion connectable to the elongated housing which further provides for mechanical and electrical engagement in a port for the tool assembly through application of a linear force.